Louisiana Regional HIV/AIDS Surveillance Report

Characteristics and Trends of Reported HIV and AIDS Cases

2001



Region I: New Orleans Region Supplement - Orleans Parish Only

HIV/AIDS Surveillance HIV/AIDS Program Louisiana Office of Public Health Louisiana Department of Health and Hospitals 234 Loyola Ave, 5th Floor New Orleans, LA 70112 (504) 568-7474

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Regional Epidemiologic Profile

Region I: New Orleans Region Supplement -Orleans Parish Only

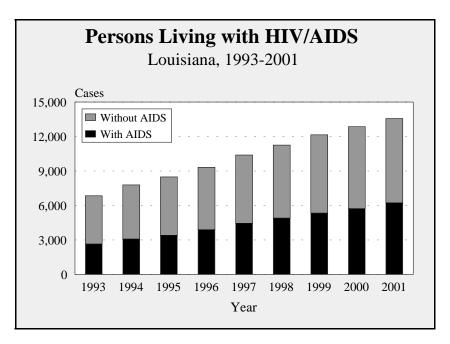
This profile summarizes the status of the HIV/AIDS epidemic in Orleans parish for cases diagnosed through 2001 and reported through May, 2002. Please refer to the technical notes (page 17) for information on the interpretation of HIV data.

The following are highlights of this year's report for Orleans parish:

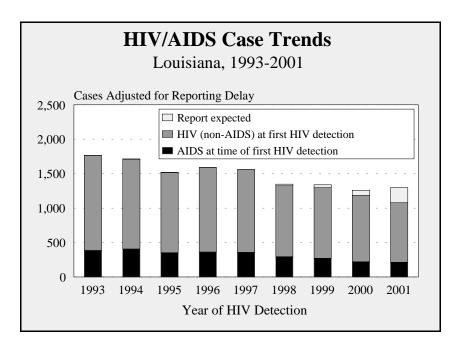
- In 2001, the New Orleans Region had the highest number of newly diagnosed cases and the second highest HIV/AIDS case rate in the state (41 cases out of every 100,000 persons). The only region with a higher HIV/AIDS case rate was the Baton Rouge Region. The Orleans parish HIV/AIDS case rate was 66 cases out of every 100,000 persons.
- Through 2001, the cumulative number of persons detected and reported with HIV infection was 8,563 in Orleans parish. Also through 2001, 5,654 persons have been diagnosed with AIDS in Orleans parish. In 2001 alone, 321 new cases of HIV infection were detected and 271 new AIDS cases were diagnosed.
- Orleans parish has the largest number of persons living with HIV/AIDS. By the end of 2001, there were 4,884 persons living with HIV/AIDS in Orleans parish.
- In Orleans parish, the number of new AIDS cases increased in 2001 for the first time since 1996.
- In 2001, 78% of the newly-diagnosed HIV/AIDS cases in Orleans parish were African-American. Consistent with all 9 regions in the state, African-American men had the highest HIV/AIDS rate in Orleans parish. One hundred and three out of every 100,000 African-American men in Orleans parish were diagnosed with HIV/AIDS in 2001.
- Women continue to represent an increasing proportion of newly-diagnosed HIV/AIDS cases. In 2001, the proportion of HIV/AIDS cases in women in Orleans parish was 37% compared to 22% in 1993.
- Although the number of new HIV/AIDS cases attributed to men who have sex with men (MSM) has
 been decreasing throughout the state, the epidemic in MSM remains the largest of all transmission
 groups in Louisiana. Statewide in 2001, 43% of all cases with a specified risk were attributed to MSM
 exposure; in Orleans parish 49% of all newly-diagnosed HIV/AIDS cases, for which a risk was
 specified, occurred among MSM.
- Statewide, 151 HIV-infected women gave birth in 2001, 49 of these women resided in Orleans parish. Although the number of women living with HIV in Louisiana has risen, perinatal transmission rates have dropped dramatically statewide from over 25% in 1993 to 5% in 2000, due to screening programs for pregnant women and increased use of antiretroviral therapy in pregnant women and their infants. Eighty-eight percent of the HIV-infected women giving birth in Orleans parish received AZT in 2001.

As the HIV/AIDS epidemic continues in persons at high risk and expands in persons who may not recognize their risk (e.g. women, sexual partners of persons at high risk), health care providers can play an important role in preventing HIV/AIDS. Physicians, nurses, and other health care workers should talk to every patient about his/her sexual behavior and recommend specific steps to decrease risky behavior, including reducing the number of sexual partners and using condoms routinely. As AIDS is still an incurable disease, the few minutes spent in this counseling can save more lives than all medical interventions that are available.

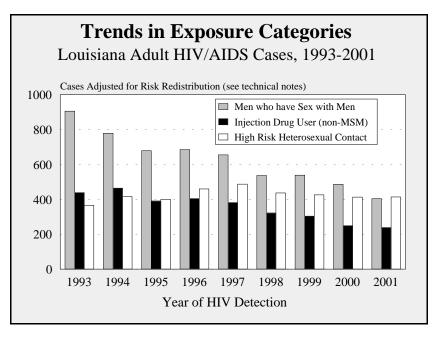
Public Health Regions					
Region	<u>Area</u>	<u>Parishes</u>			
I	New Orleans	Jefferson, Orleans, Plaquemines, St. Bernard			
II	Baton Rouge	Ascension, East Baton Rouge, East Feliciana, Iberville, Ponte Coupee, West Baton Rouge, West Feliciana			
III Houma		Assumption, Lafourche, St. Charles, St. James, St. John the Baptist, St. Mary, Terrebone			
IV	Lafayette	Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, Vermillion			
V	Lake Charles	Allen, Beauregard, Calcasieu, Cameron, Jefferson Davis			
VI Alexandria		Avoyelles, Catahoula, Concordia, Grant, La Salle, Rapides, Vernon, Winn			
VII Shreveport		Bienville, Bossier, Caddo, Claiborne, De Soto, Natchitoches, Red River, Sabine, Webster			
VIII	Monroe	Caldwell, East Carroll, Franklin, Jackson, Lincoln, Madison, Morehouse, Ouachita,			
IX Hammond/Slidell		Richland, Tensas, Union, West Carroll Livingston, St. Helena, St. Tammany, Tangipahoa, Washington			



• The number of persons living with HIV continues to increase each year. At the end of 2001, 13,565 persons were known to be living with HIV/AIDS in Louisiana, of whom 6,236 (46%) had progressed to AIDS. This trend is largely due to the introduction of effective drug treatment and therapies, which delay the progression from HIV to AIDS and AIDS to death.



- In 2001, 1,078 new HIV/AIDS cases were detected statewide. Since 1993, the number of newly-detected HIV/AIDS cases has decreased by over a third, from 1,766 cases detected in 1993 to 1,078 cases detected in 2001.
- Of the newly detected cases in 2001, 22% were diagnosed with AIDS at the time of first HIV-detection.



- The largest proportion of cases detected in 2001 (38%) were attributed to heterosexual contact, after adjusting for unreported risk.
- Cases among MSM, including MSM/IDU accounted for 37% of all cases detected in 2001; however nearly half of all persons living with HIV in Louisiana (48%) may have been exposed to the virus through male-male sexual contact.

STATEWIDE

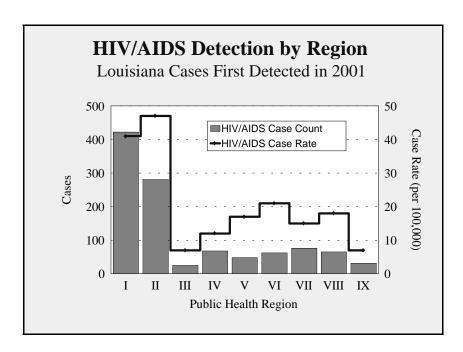
Louisiana HIV/AIDS Cases and Case Rates by Parish									
	AIDS		HIV/AIDS	Cum		AIDS	HIV /AIDS	HIV/AIDS	Cum
		Detected in	Detection	HIV/AIDS			Detected in	Detection	HIV/AIDS
PARISH	2001	2001	Rate, 2001 ^b	Cases ^c	PARISH	2001	2001	Rate, 2001 ^b	Cases ^c
Statewide	858	1,078	24	21,584	Region VI	35	62	21	881
					Avoyelles	6	10	24	193
Region I	343	422	41	10,604	Catahoula	2	4	n/a	22
Jefferson	68	93	20	1,844	Concordia	2	3	n/a	43
Orleans	271	321	66	8,563	Grant	3	6	32	30
Plaquemines	0	2	n/a	42	La Salle	0	1	n/a	7
St. Bernard	4	6	9	155	Rapides	17	33	26	444
					Vernon	2	3	n/a	72
Region II	237	281	47	4,228	Winn	3	2	n/a	70
Ascension	9	14	18	148					
East Baton Rouge	185	230	56	3,371	Region VII	56	76	15	1,285
East Feliciana	10	9	42	117	Bienville	0	2	n/a	18
Iberville	14	15	45	231	Bossier	6	6	6	132
Pointe Coupee	5	3	n/a	59	Caddo	34	53	21	885
West Baton Rouge	4	6	28	115	Claiborne	6	2	n/a	58
West Feliciana	10	4	n/a	187	De Soto	4	6	24	34
					Natchitoches	2	4	n/a	80
Region III	27	25	7	644	Red River	0	0	n/a	9
Assumption	0	0	n/a	29	Sabine	1	1	n/a	23
LaFourche	4	3	n/a	101	Webster	3	2	n/a	46
St. Charles	2	2	n/a	92					
St. James	3	0	n/a	57	Region VIII	51	65	18	946
St. John the Baptist	2	3	n/a	84	Caldwell	1	1	n/a	16
St. Mary	3	4	n/a	94	East Carroll	5	9	96	36
Terrebone	13	13	12	187	Franklin	0	0	n/a	22
					Jackson	1	0	n/a	16
Region IV	49	68	12	1,281	Lincoln	1	1	n/a	67
Acadia	8	9	15	104	Madison	4	7	51	63
Evangeline	3	4	n/a	46	Morehouse	3	1	n/a	60
Iberia	6	9	12	109	Ouachita	30	35	24	534
Lafayette	14	20	10	639	Richland	4	7	33	52
St. Landry	14	14	16	211	Tensas	1	2	n/a	29
St. Martin	2	8	16	87	Union	1	0	n/a	33
Vermilion	2	4	n/a	85	West Carroll	0	2	n/a	18
Verminon	_		11/ 4	03	West Carron	O	2	11/ 4	10
Region V	34	48	17	859	Region IX	26	31	7	856
Allen	4	2	n/a	141	Livingston	4	7	8	123
Beauregard	3	3	n/a	60	St. Helena	0	0	n/a	10
Calcasieu	23	39	21	595	St. Tammany	9	10	5	353
Cameron	1	1	n/a	8	Tangipahoa	6	10	10	190
Jefferson Davis	3	3	n/a	55	Washington	7	4	n/a	180

^aDX—Diagnosed with AIDS. AIDS diagnoses will be included in counts of HIV/AIDS detection (2nd column) for persons first detected with HIV at an AIDS diagnosis; therefore numbers from the two columns should not be added.

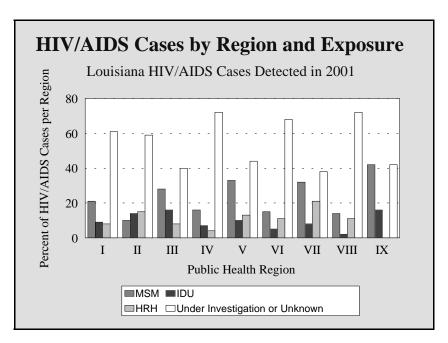
^b Rates per 100,000 persons in parish. Rates are unstable and not available (n/a) for parishes with low case counts.

^c Cumulative HIV/AIDS may be interpreted as minimum number of cases reported in parish.

STATEWIDE



• The New Orleans region had the highest number of HIV/AIDS cases detected in 2001. However, in 2001 as in past years, the Baton Rouge region surpassed the New Orleans region in HIV/AIDS detection rates (number of cases per population in the region).



• In Region I, which is similar to every region of the state except the Baton Rouge region, the largest proportion of newly-detected cases in 2001, with an identified exposure, were attributed to MSM exposure. In the Baton Rouge region, both injection drug use and high-risk heterosexual contact accounted for larger percentages of the newly-detected cases than did male-male sexual contact.

ORLEANS, HIV DATA

Characteristics of HIV-Infected Persons (HIV/AIDS) ^a							
Orleans Parish							
Persons with HIV/AIDS					Persons Living		
	First Detected in 2001					with HIV/AIDS	
	These colum	ns reflect pers	ons with HIV	' infection	This column reflects the		
		<i>u</i>		v	minimum number of		
	2001 throug	h confidential	testing. Som	e of these	persons living with HIV/		
	persons may	have been dia	gnosed with	AIDS at the	AIDS by the end of 2001.		
	time HIV wa	s first detected	l; therefore, t	his column	This column includes		
	v	lect new cases	J J	ion but rather	persons living with AIDS.		
		f HIV detection	!				
		<u>ewide</u>			s Parish		
	Cases	Percent b	Cases	Percent ^b	Cases	Percent b	
TOTAL	1,078	100%	321	100%	4,884	100%	
Gender							
Men	689	64%	118	63%	3,654	75%	
Women	389	36%	203	37%	1,230	25%	
Women	367	3070	203	3170	1,230	2570	
Ethnicity							
African-American	796	74%	249	78%	3,128	64%	
White	243	23%	61	19%	1,594	33%	
Other	33	3%	10	3%	147	3%	
Unknown	6	1%	1	<1%	15	<1%	
Age Group	Age at HIV	Detection	Age at HIV	/ Detection	Age at Ei	Age at End of 2001	
Under 13	10	1%	1	<1%	56	1%	
13-24	219	20%	68	21%	253	5%	
25-34	285	26%	85	26%	1,183	24%	
35-44	316	29%	91	28%	1,859	38%	
Over 44	248	23%	76	24%	1,533	31%	
Exposure Group ^c							
MSM ^d	189	43%	58	49%	1,694	53%	
IDU^d	107	24%	33	28%	599	19%	
MSM and IDU	14	3%	4	3%	298	9%	
HRH ^d	121	27%	23	19%	485	15%	
Trans/Hemo	2	1%	0	0%	38	1%	
Perinatal .c. re	10	2%	1	1%	59	2%	
Unspecified ^e	635	59%	202	63%	1,711	35%	
Urban/Rural Parishes							
Urban	929	86%	321	100%	4,884	100%	
Rural	149	14%					
^a HIV data collection started in 10	002 Positivo rosu	lts of anonymous to	ete are not includ	ad due to the likelih	and of repeated to	oto	

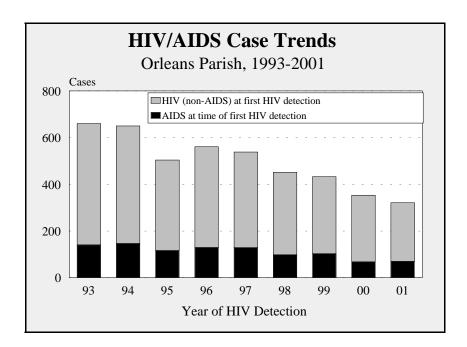
^a HIV data collection started in 1993. Positive results of anonymous tests are not included due to the likelihood of repeated tests.

^b Percentages might not add up to 100% due to missing values and rounding errors.

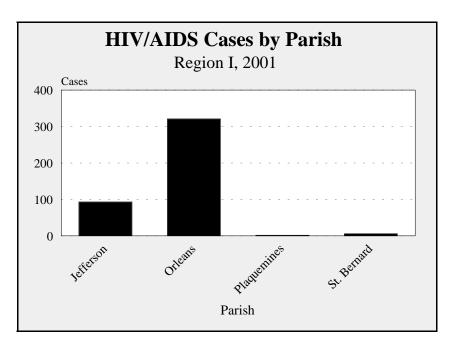
^cPercents for identified exposure groups represent the distribution among those with a specified exposure.

^d MSM: Men who have Sex with Men (non-IDU); IDU: Injection Drug Users; HRH: High Risk Heterosexual.

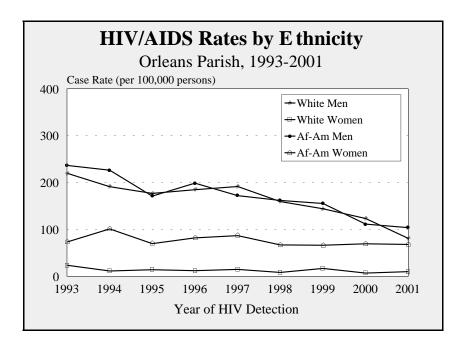
^eUnspecified Exposure refers to cases whose exposure group is under investigation or unknown.



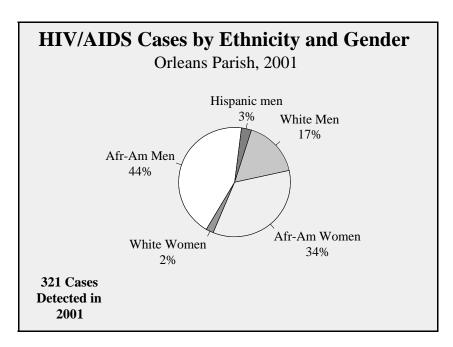
• From 2000 to 2001, the number of newly-detected cases in Orleans parish decreased, from 353 in 2000 to 321 in 2001. Of the persons who were detected with HIV in Orleans parish in 2001, 22% were diagnosed with AIDS at the time of first HIV detection.



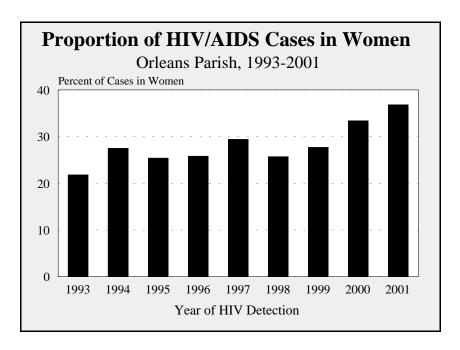
• In Region I, Orleans parish had the highest numbers of newly-detected cases in 2001. Orleans parish also had the highest number of newly-detected cases of all the parishes in Louisiana in 2001.



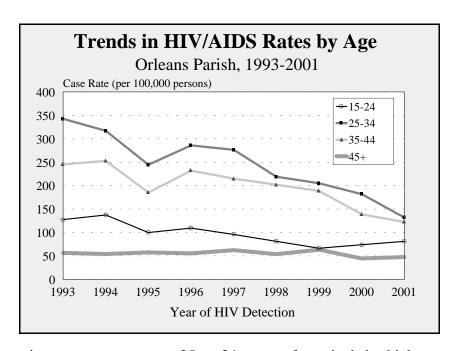
• In Orleans parish, rates among African-American and white men are very similar and have been decreasing since 1993. However, rates among African-American and white women have remained relatively stable.



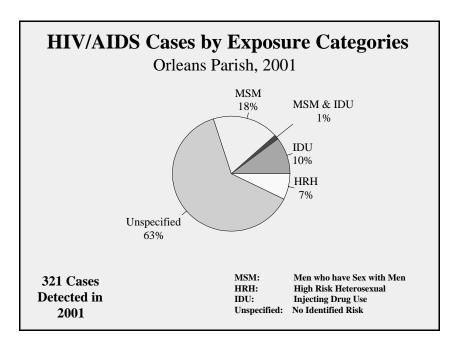
• Forty-four percent (44%) of newly-detected cases in 2001 were among African-American men, compared to 17% among white men.



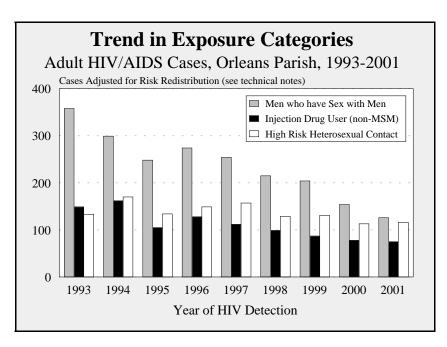
• The percentage of newly-detected HIV/AIDS cases reported among women in Louisiana has steadily been increasing. In 2001, 36% of new cases in Orleans parish were among women compared to 36% statewide.



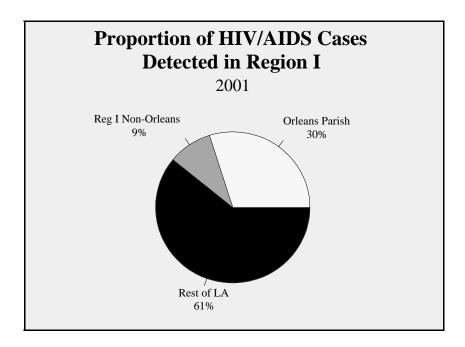
• In 2001, as in past years, persons 25 to 34 years of age had the highest rates of newly-detected cases. However, the HIV/AIDS detection rate among this age group has been declining while the rates among persons 15 to 24 and 45 years of age and older have remained relatively stable.



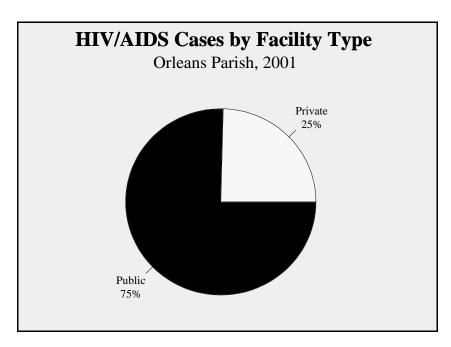
• In 2001, 63% of cases detected in Orleans parish were reported without any mode of exposure.



• After adjusting for unreported risk, men who have sex with men is the predominant mode of exposure in Orleans parish for 2001.



• Thirty percent (30%) of the newly-detected cases in Louisiana, in 2001, were detected in persons living in Orleans parish.



• Seventy-five percent (75%) of newly-detected cases in 2001 were detected in a public facility.

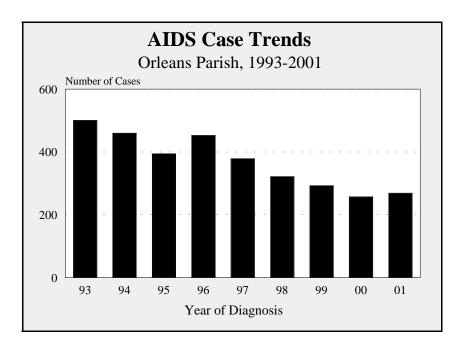
ORLEANS, AIDS DATA

Characteristics of AIDS Cases Orleans Parish							
	AIDS Cases Dia		Cumulative AIDS Cases				
	Cases			Percent ^a			
TOTAL	271	100%	<u>Cases</u> 5,654	100%			
Gender							
Men	178	66%	4,768	84%			
Women	93	34%	886	16%			
Age Group							
Under 13	0	0%	50	1%			
13-24	17	6%	363	6%			
25-34	82	30%	2,077	37%			
35-44	92	34%	2,049	36%			
45+	80	30%	1,115	20%			
Ethnicity ^b							
African-American	211	78%	3,094	55%			
White	48	18%	2,373	42%			
Hispanic	12	4%	159	3%			
Other	0	0%	28	<1%			
Ethnicity ^b and Gender		0,0	20	1770			
Af-Am Men	125	46%	2,308	41%			
White Men	43	16%	2,296	41%			
Hispanic Men	10	4%	139	2%			
Other Men	0	0%	25	<1%			
other Wen	· ·	070	23	<170			
Af-Am Women	86	32%	786	14%			
White Women	5	2%	77	1%			
Hispanic Women	2	1%	20	<1%			
Other Women	0	0%	3	<1%			
Exposure Category ^c	J	070		\170			
MSM	54	37%	2,910	61%			
IDU	44	31%	771	16%			
MSM and IDU	13	9%	493	10%			
HRH	32	22%	452	10%			
Trans/Hemo	1	1%	73	2%			
Perinatal	0	0%	50	1%			
Unspecified	127	47%	905	16%			
Urban/Rural Parishes	14/	7//0	703	10/0			
Urban	271	100%	5,654	100%			
Facility Type	2/1	100/0	J,0JT	10070			
Public	214	78%	3,731	66%			
Private	57	22%	1,908	34%			
^a Percentages might not add up to			1,700	J+70			

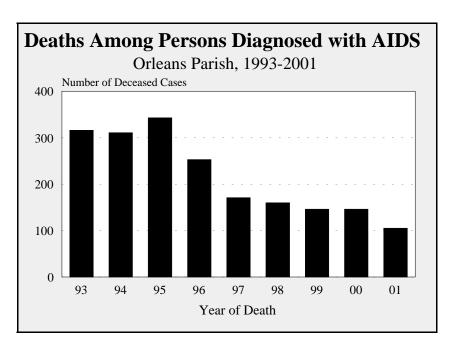
^aPercentages might not add up to 100% due to missing values and rounding errors.

^b Cases and rates by ethnicity do not include cases whose race/ethnicity is unknown.

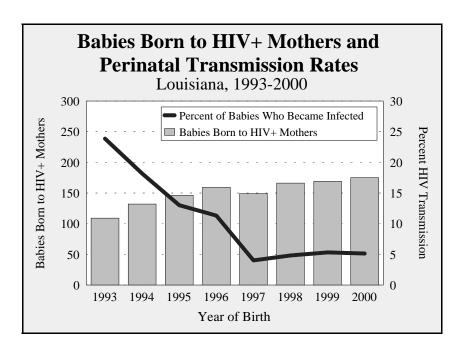
^cMSM = Men who have Sex with Men; IDU = Injection Drug User; HRH = High Risk Heterosexual; Unspecified = Still Under investigation or unknown. See technical notes for further explanation.



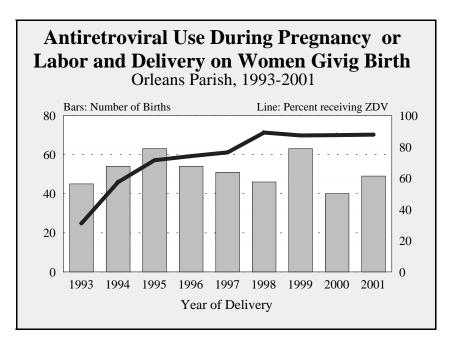
• In Orleans parish, the number of new AIDS cases increased in 2001 for the first time since 1996.



• In 2001, 105 deaths among persons diagnosed with AIDS occurred in Orleans parish. Deaths among persons diagnosed with AIDS in Region I represent 37% of AIDS-related deaths statewide.



Perinatal transmission rates dropped dramatically from 1993 to 1997 with the introduction
and widespread use of antiretrovirals during pregnancy, labor and delivery, and to the baby
after birth. In recent years, the perinatal transmission rates have remained fairly stable.
However, the number of HIV-infected babies will continue to increase as the number of
babies born to HIV-infected mothers rises due to growing numbers of women living with
HIV.



• As of May 2002, 151 HIV-infected women were reported to have given birth in 2001 statewide; 49 of these women resided in Orleans parish. While 94% of the HIV-infected women giving birth statewide received AZT in 2001, 88% of the HIV-infected pregnant women in Orleans parish received AZT.

TECHNICAL NOTES

Interpretation of HIV Detection Data

Because antiretroviral treatment regimens are initiated earlier in the course of HIV infection than previous treatments, effective therapies postpone and/or prevent the onset of AIDS, resulting in a decrease in AIDS incidence. Consequently, recent incident AIDS data can no longer provide the basis of HIV transmission estimates and trends, and the dissemination of surveillance data has moved toward placing heavier emphasis on the representation of HIV-positive persons. Throughout this report, all AIDS data are depicted by characteristics at year of AIDS diagnosis under the 1993 AIDS case definition, whereas HIV data are characterized at year of HIV detection (earliest positive test reported to the health department).

HIV detection data are not without limitations. Although HIV detection is usually closer in time to HIV infection than is an AIDS diagnosis, data represented by the time of HIV detection must be interpreted with caution. Unlike AIDS data where the date of diagnosis is relatively precise for monitoring AIDS incidence, HIV detection trends do not accurately depict HIV transmission trends. This is because HIV detection data represent cases who were reported after a positive result from a confidential HIV test, which may first occur several years after HIV infection. In addition, the data are under detected and under reported because only persons with HIV who choose to be tested confidentially are counted. HIV detection counts do not include persons who have not been tested for HIV and persons who <u>only</u> have been tested anonymously.

Therefore, HIV detection data do not necessarily represent characteristics of persons who have been recently infected with HIV, nor do they provide true HIV incidence. Demographic and geographic subpopulations are disproportionately sensitive to differences and changes in access to health care, HIV testing patterns, and targeted prevention programs and services. All of these issues must be carefully considered when interpreting HIV data.

Definitions of the Exposure Categories

For the purposes of this report, HIV/AIDS cases are classified into one of several hierarchical exposure (risk) categories, based on information collected. Persons with more than one reported mode of exposure to HIV are assigned to the category listed first in the hierarchy. Definitions are as follows:

- Men who have Sex with Men (MSM): Cases include men who report sexual contact with other men, i.e. homosexual contact or bisexual contact.
- **Injection Drug User (IDU)**: Cases who report using drugs that require injection not other route of administration of illicit drug use at any time since 1978.
- **High Risk Heterosexual Contact (HRH)**: Cases who report specific heterosexual contact with a person who has HIV or is at increased risk for HIV infection, e.g. heterosexual contact with a homosexual or bisexual man, heterosexual contact with an injection drug user, or heterosexual contact with a person known to be HIV-infected.
- **Hemophilia/Transfusion/Transplant** (**Hemo/Transf**): Cases who report receiving a transfusion of blood or blood products prior to 1985.
- **Perinatal**: HIV infection in children resulting from transmission from an HIV+ mother to her child.

• Unspecified: Cases who, at the time of this publication, have no reported history of exposure to HIV through any of the routes listed in the hierarchy of exposure categories. These cases represent logistical issues of surveillance and do <u>not</u> imply that modes of transmission other than sexual, blood, and perinatal are suspected. "Unspecified" cases include: persons for which the surveillance protocols to document the risk behavior information have not yet been completed and are still under investigation; persons whose exposure history is incomplete because they have died, declined risk disclosure, or were lost to follow-up; persons who deny any risk behavior; and persons who do not know the HIV infection status or risk behaviors of their sexual partners.

Case Definition Changes

The CDC AIDS case definition has changed over time based on knowledge of HIV disease and physician practice patterns. The original definition was modified in 1985¹. The 1987 definition² revisions incorporated a broader range of AIDS opportunistic infections and conditions and used HIV diagnostic tests to improve the sensitivity and specificity of the definition. In 1993, the definition was expanded³ to include HIV-infected individuals with pulmonary tuberculosis, recurrent pneumonia, invasive cervical cancer, or CD4 T-lymphocyte counts of less than 200 cells per ml or a CD4⁺ percentage of less than 14. A result of the 1993 definition expansion caused HIV-infected persons to be classified as AIDS earlier in their course of disease than under the previous definition. Regardless of the year, AIDS data are tabulated in this report by the date of the first AIDS defining condition in an individual under the 1993 case definition.

The case definition for HIV infection was revised in 1999⁴ to include positive results or reports of detectable quantities of HIV virologic (nonantibody) tests. The revisions to the 1993 surveillance definition of HIV include additional laboratory evidence, specifically detectable quantities from virologic tests. The perinatal case definition for infection and seroreversion among children less than 18 months of age who are perinatally exposed to HIV has been changed to incorporate the recent clinical guidelines and the sensitivity and specificity of current HIV diagnostic tests in order to more efficiently classify HIV-exposed children as infected or non-infected.

Adjustment and Estimation Techniques

The period of time between when a case is diagnosed and when it is reported (reporting delay) causes distortions in trends for recently diagnosed cases. Reporting delays were estimated using a maximum likelihood procedure, taking into account possible differences in reporting delays among exposure, geographic, ethnic, age, and gender categories. The estimated number of cases that will be reported are presented as "expected" cases. Adjustment programming was developed by CDC (HIV/AIDS Surveillance Report, 1994; 6(2): 37-38).

Recently reported cases, especially HIV (non-AIDS) cases, are more likely to be reported without a specified risk (exposure), thereby causing a distorting decrease among trends in exposure categories. Thus, proportions and graphic representation of trends among risk groups use estimated cases based on risk redistribution. This redistribution is based on preliminary national sex-and race- specific exposure classification distributions of previously unspecified HIV cases in the southern states. These redistribution parameters are similar to those based on national AIDS cases diagnosed prior to 1993 as well as those based on the distribution of specified cases in Louisiana.

¹ MMWR 1985; 34: 373-75.

² MMWR 1987; 36 [Supp no.1S]: 1S-15S.

³ MMWR 1992; 41[RR-17]: 1-19.

⁴ CDC 1999; 48[RR13]; 1-27.